

# **2002 SEED SUMMARY REPORT INSPECTION RESULTS**



**PLANT INDUSTRIES DIVISION  
BUREAU OF FEED AND SEED**

**LOWELL MOHLER, DIRECTOR**

## **Missouri Department of Agriculture Mission Statement**

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To serve, promote, and protect the agricultural producers, processors, and consumers of Missouri's food, fuel, and fiber products.

## **FOREWORD**

The seed report is comprised of two sections.

Section One is intended to show the reliability of labelers in meeting their claims for seed quality. Inspections listed in this section were planned on random basis, with no intentional bias, for the purpose of providing a means of comparing each labeler's reliability in meeting claims. The greater the number of samples taken per labeler, the greater the probability that the consistency in meeting claims shown will represent the labeler's actual performance.

Section Two is comprised of selective inspections designed specifically to curtail labeling and licensing violations of Seed Law. Examples of violations are selling seed without a seed permit, selling seed out of test date, and labeling omissions or inconsistencies with the law.

Stop sales are debited to the labeler if a discrepancy from the labeler's claim is found. If a lot of seed is found to be offered for sale past the time allowed on the existing germination test date, that violation is charged against the possessor of the seed. Violations recorded against the possessor of the seed are listed in Section Two.

All inspections were performed to fulfill the regulatory responsibilities given the Missouri Department of Agriculture by the Missouri Seed Law, Statute Sections 226.011 through 266.111 (RSMo 2000).

## **INTRODUCTION**

The Missouri Department of Agriculture, Plant Industries Division, Bureau of Feed and Seed is pleased to publish the 2002 Seed Summary Report and Inspection Results.

The quality of seed in Missouri in 2002 was improved compared to 2001. Three thousand three hundred fifty eight (3,358) lots of seed were officially sampled and tested. One hundred fifty one (151) Stop-Sale Orders were issued for seed failing to meet its labeled guarantees. This resulted in a compliance rate of 95.50% compared to 93.72% in 2001.

The Missouri Seed Control Laboratory tested 1237 service samples in 2002. A total of 4,595 seed samples were tested in 2002 resulting in a total of 10,868 individual tests performed.

Free testing of out of date (germination) of retail or wholesale carry over seed will be discontinued in 2003 due to budget restraints. Free testing of unlabeled seed not intended for resale, but intended for planting on a Missouri farm operated by the requester will be done during the periods of June 1 to August 31 and November 1 thru January 15.

All seed retailers are required to have their on-hand carry over seed retested for germination every 10 months (counting the month the seed was retested.) The new test date must appear on all labels. Lots of seed found to be out of test date will be placed on Stop Sale Order until such time as the seed has been tested and new test date is placed on label with any change in germination rate or the seed is disposed of in an acceptable manner. In 2002, 76 field written Stop Sale Orders were issued mainly on out of test date seed.

The Bureau of Feed and Seed offers many seed sampling and seed testing services. The charges for analysis and analytical reports on seed samples are listed in the Missouri Seed Law Rules 2CSR 70-35.050.

For more information concerning the services offered by the Bureau of Feed and Seed, contact the Feed and Seed Inspector in your area or write, call, fax or E-mail the office at:

**Missouri Department of Agriculture  
Plant Industries Division  
P.O. Box 630  
Jefferson City, MO 65102  
Becky\_Lueckenotte@mail.mda.state.mo.us  
**(573) 751-4310 office; (573)-751-0005 Office Fax  
(573) 751-4340 Seed Laboratory; (573) 526-7777 Seed Laboratory Fax  
Or visit our website at www.mda.state.mo.us  
Plants, Grain, Feed & Seed****

## **PLANT INDUSTRIES DIVISION**

### **BUREAU OF FEED AND SEED**

Joseph Francka, Director, Plant Industries

R. Kent Jones, Program Administrator, Bureau of Feed and Seed

Tony L. Claxton, Program Coordinator/Inspection Fee Auditor, Bureau of Feed and Seed

Clerical Staff

Linda Adkins

Becky Lueckenotte

Tony Hoover, Manager, Seed Laboratory

David Hoskins, Seed Analyst III

Nevelyn Higgins, Seed Analyst II

Jane Marbaker, Seed Analyst II

### **INSPECTORS AND ASSIGNED AREAS**

#### **AREA 1**

Richard Lollar  
1206 Northwood Terrace  
Chillicothe, MO 64601  
(660) 646-5811

#### **AREA 3**

Vacant

#### **AREA 5**

Mike Harter  
398 N. State Hwy T  
Springfield, MO 65802  
(417) 732-2245

#### **AREA 2**

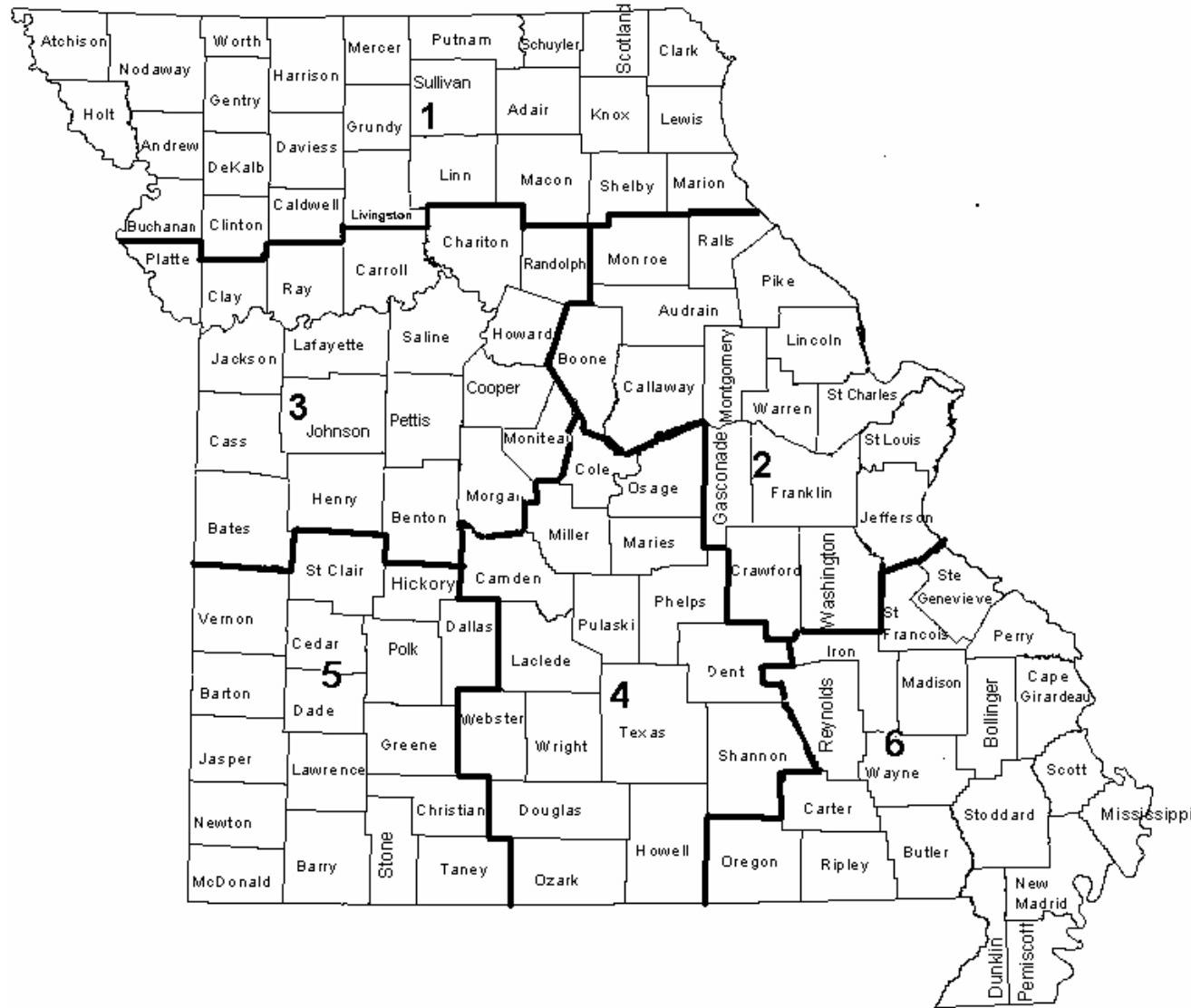
Rick Schroeppel  
613 Wilson Street  
Washington, MO 63090  
(636) 239-3085

#### **AREA 4**

Devin Hart  
16694 Amber Drive  
Houston, MO 65483  
(417) 967-4672

#### **AREA 6**

Larry Ward  
1424 Co. HWY 314  
Portageville, MO 63873  
(573) 379-3635



**2002 STATISTICAL SUMMARY  
SAMPLES ANALYZED FOR 2002**

<b>OFFICIAL SAMPLES ANALYZED</b>	<b>3,358</b>
Purity	2,736
Noxious Weed	2,978
Germination	3,687
<b>TOTAL NUMBER OF LOTS IN VIOLATION</b>	<b>151</b>
<b>TOTAL OFFICIAL TESTS PERFORMED</b>	<b>9,401</b>
<b>COMPLIANCE RATE OF OFFICIAL SAMPLES ANALYZED</b>	<b>95.50%</b>
<b>SERVICE SAMPLES ANALYZED</b>	<b>1,237</b>
Purity	132
Noxious Weed	128
Germination	1,161
<b>TOTAL SERVICE SAMPLES TESTS PERFORMED</b>	<b>1,467</b>
<b>OTHER TESTS</b>	<b>46</b>
TZ	4
Cold Test	23
Cool Test	0
Fescue Endophyte	1
Feed Samples Analyzed for Noxious Weeds	5
Seed Count per pound	13
<b>TOTAL SAMPLES FOR 2002</b>	<b>4,595</b>
<b>TOTAL TESTS PERFORMED FOR 2002</b>	<b>10,868</b>
<b>SEED PERMITS ISSUED FOR 2002</b>	<b>4,279</b>

Information on samples, inspection of seeds, or service samples are available from the Bureau of Feed and Seed, 1616 Missouri Boulevard, Jefferson City, Missouri, 65109 or by calling (573) 751-5474.

## **TRUENESS-TO-VARIETY TESTING PROGRAM FOR 2003**

The Seed Regulatory and Testing Branch will be conducting Trueness-to Variety (TTV) field trials again in 2003.

We request your help again by submitting official samples for the field trials. The crops will be soybeans, spring small grains (wheat, barley, oat, rye, triticale) and the cole crops (cabbage, broccoli, cauliflower, collards.) The soybeans will be tested for Roundup resistance, as well as variety, and the cole crops will be a fall planting. The test sites, crops, cut-off dates and minimum sample sizes are given on the attached table.

For each sample we need to know the kind, variety name (as labeled), hybrid (if hybrid), and some identifying number. Lot number and brand are helpful. Any special comments are also welcome.

We emphasize interstate shipments, but this is not required. We are able to take quite a few samples, so don't be shy.

This program is intended for enforcement of Federal Seed Act variety labeling provision, and we hope may be of service to you in enforcing your State Seed Control Programs. Thank you for your continuing interest and participation in the program.

<b>Site</b>	<b>Crops</b>	<b>Minimum Sample Size Grams</b>	<b>Approximate Number of Samples</b>	<b>Reps</b>	<b>Cut-Off Date</b>	<b>Planting Date</b>
Maryland	Soybean	100	250	2	15- May	15-June
Texas	Soybean	100	300	2	15-May	15-June
Minnesota	Soybean	100	200	2	15-April	01-May
South Dakota	Spring small grains	30	250		15-April	01-May
Southern Univ	Cabbage, broccoli, cauliflower, collards	1	250		31-August	Fall
<b>Total</b>			<b>1250</b>			

## SUBMITTING SERVICE SAMPLES

➤ **Testing period for free seed analysis:**

June 1 through August 31  
November 1 through January 15

➤ **Testing period for charges on seed analysis:**

January 16 through May 31  
September 1 through October 31

➤ **Purity charges:**

One cultivar	\$12.00
More than one cultivar in same sample	\$18.00
Seed having less than 90% pure seed	\$10.00/hour

➤ **Germination charges (highly chaffy grasses, excluded)** \$12.00

➤ **Other testing charges:**

TZ	\$25.00
Highly chaffy seed	10.00/hour
Highly chaffy germ	\$14.00
Endophyte from growth	\$30.00
Endophyte from seed	\$20.00
Noxious and Prohibited weed seed	\$12.00
Complete Test (Including Purity, Germination, and Noxious Weeds)	\$36.00
Cold Test (Soybeans)	\$12.00
Cool Test (Cotton)	\$12.00

## **CRITERIA FOR OBTAINING A SERVICE SAMPLE**

Forward your seed in containers adequate to protect the sample.  
Without proper sampling technique, test will not reflect true quality of the seed.

➤ **Bulk Lot seeds:**

Take a sample from several places.  
Mix the seed samples thoroughly.  
Make a composite sample.

➤ **Bagged Lot Seeds:**

Take sample from approximately 10% of the bags.  
Mix the seed samples thoroughly.  
Make a composite sample.

➤ **Size of sample needed for testing**

<b>TYPE OF SEED</b>	<b>SAMPLE SIZE GERMINATION</b>	<b>SAMPLE SIZE PURITY</b>
Soybeans	one quart	one-half gallon
Large Seeds (corn, cotton, small grain, sorghum)	one pint to one quart	one quart
Small seeds (grass, clover, alfalfa, lespedeza)	one-half pint	one quart

## **SEED ANALYSIS SERVICE SAMPLE APPLICATION**

Submit seed samples with request for analysis to: **State Seed Control Laboratory**  
**Department of Agriculture**  
**1616 Missouri Blvd. (65109)**  
**P.O. Box 630 (65102)**  
**Jefferson City, MO**

**PLEASE PRINT OR TYPE THE FOLLOWING INFORMATION:**

**Lot number or ID of seed** \_\_\_\_\_ **Kind of Seed** \_\_\_\_\_

**Check the following analysis to be run:**      **Free** \_\_\_\_\_      **Charge** \_\_\_\_\_ (see page 7 for free & charge times)

## **Germination**

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## Purity

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## Noxious or prohibited weed seed content

**Other (please specify)** \_\_\_\_\_

**Person planting this seed** \_\_\_\_\_

**Address** \_\_\_\_\_  
(Route/Street No.) \_\_\_\_\_ (P.O. Box) \_\_\_\_\_

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**(City)** \_\_\_\_\_ **(State)** \_\_\_\_\_ **(Zip)** \_\_\_\_\_

## **Phone number**

# **SECTION ONE**

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

1

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
AG SOURCE SEEDS BOONE IA SOYBEANS	2	2						
AGREVO USA COMPANY COLLIERVILLE TN COTTON	4	4						
AGVENTURE INC KENTLAND IN CORN, FIELD	16	16						
AGVENTURE INC SOYBEANS	11	11						
AGVENTURE INC SOYBEANS	5	5						
AHRENHOLTZ SEED MANILLA IA CORN, FIELD	1	1						
AHRENHOLTZ SEED MANILLA IA CORN, FIELD	1	1						
ARROW SEED CO BOWEN ILL SOYBEANS	4	4						
ARROW SEED CO BOWEN ILL SOYBEANS	4	4						
BARENBRUG USA TANGENT OR MIXED SEED	9	7	2	1	1			1
BARENBRUG USA FESCUE, TALL	5	4	1			1		
BARENBRUG USA RYEGRASS, PERENNIAL	3	2	1	1				1
BARENBRUG USA RYEGRASS, PERENNIAL	1	1						
BELL-MO SEED CO INC BELL CITY MO SOYBEANS	7	7						
BELL-MO SEED CO INC BELL CITY MO SOYBEANS	7	7						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

2

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				OTHER
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	
BELT FUR WOOL & SEED CO LEONARD MO	9	9						
LESPEDAZA, KOREAN SOYBEANS	1	1						
WHEAT	4	4						
BENOIT WAYNE CENTRALIA MO	1	1						
SOYBEANS	1	1						
BEST SEED COMPANY ELDRIDGE IL	1	1						
CORN, FIELD	1	1						
BOURN FEED COLUMBIA MO	4	1	3	2	1			
MIXED SEED	4	1	3	2	1			
BUCHHEIT INC PERRYVILLE MO	23	18	5	3		3		
MIXED SEED	3	1	2	2		1		
ALFALFA	1	1						
FESCUE, TALL	10	9	1			1		
MILLET	1	1						
ORCHARDGRASS	5	5						
REDTOP	1		1	1				
RYEGRASS, ANNUAL	1	1						
WHEAT	1		1			1		
BUCK FORAGE PRODUCTS STUTTGART AR	2	2						
OAT	1	1						
WHEAT	1	1						
BUCK ISLAND SEED CO TUNICA MS	2	2						
WHEAT	2	2						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

3

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
BULLARD SEED ASHLAND MO WHEAT	2	2						
	2	2						
BWI COMPANIES INC SPRINGFIELD MO MIXED SEED BERMUDAGRASS	6	4	2	1	1			
	5	3	2	1	1			
	1	1						
BWI COMPANIES INC TEXARKANA TX MIXED SEED FESCUE, TALL LESPEDEZA, KOREAN RYEGRASS RYEGRASS, ANNUAL	34	33	1					1
	17	17						
	14	13	1					1
	1	1						
	1	1						
	1	1						
CARTER-COX SEED INC. KNOBEL AR RICE WHEAT	8	7	1		1			
	3	2	1		1			
	5	5						
CASHE RIVER VALLEY CASH AR MIXED SEED RICE SOYBEANS WHEAT	11	11						
	1	1						
	4	4						
	1	1						
	5	5						
CHESMORE SEED CO ST JOESPH MO VEGETABLE	6	6						
	6	6						
COLUMBIA GRAIN OHINOOK MT FIELD PEA	1	1						
	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

4

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
CONIDA SEED CO. HAZELTON ID VEGETABLE	1	1						
COOSEMAN FARMS PITTSBURG KS WHEAT	1	1						
CROP PRODUCTION SERVICES GALESBURG IL SOYBEANS	5	5						
CROPLAN GENETICS/ FT DODGE, IA SOYBEANS	20	20						
CROWS KENLAND IN SOYBEANS	1	1						
CULLUM SEED CO FISHER ARKANSAS RICE	1	1						
CUTTING EDGE AGRI PRODUC LOWERY CITY MO LESPEDEZA	1	1						
DAMES FEED & SEED SIKESTON MO COWPEA VEGETABLE	3	3						
	1	1						
	2	2						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

5

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
DAVIS SEED FARM INC VANDALIA MO SOYBEANS	1	1						
DELTA & PINE LAND CO SCOTT MS MIXED SEED	65	65						
COTTON	2	2						
SOYBEANS	56	56						
	7	7						
DELTA GROW SEED ENGLAND AR SOYBEANS	6	6						
	6	6						
DESIGN INC WILLOWS CA VEGETABLE	4	4						
	4	4						
DISCOUNT SEEDS INC WATERTOWN SD OAT	7	4	3	2	2	2	1	
RYE	1		1			1	1	
	6	4	2	2		1		
DOMESTIC SEED & SUPPLY MADISON SD RYE	1	1						
	1	1						
DORSING SEEDS INC NYSSA OR VEGETABLE	4	4						
	4	4						
DOUBLE D SEEDS HALLSVILLE MO LESPEDEZA	1	1						
	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

6

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
DYE SEED SERVICE MOREHOUSE MO RICE	1	1						
EL-MEL, INC. ST. CHARLES MO MIXED SEED	1	1						
EL-PAR STOCK & SEED FARM VERSAILLES MO BARLEY	3	3						
	2	2						
	SOYBEANS	1	1					
EXCEL MILLING SYRACUSE MO FESCUE, TALL	1	1						
	1	1						
FARMERS AG CENTER MTN GROVE MO FESCUE, TALL	1		1				1	
	1		1				1	
FELDMAN'S BLUE SPRINGS MO FESCUE, TALL	1	1						
	1	1						
FERGUSON SEED FARMS GLASGOW MO SOYBEANS	1	1						
	1	1						
FERRY-MORSE SEED COMPANY FULTON KY MIXED SEED	2	2						
	1	1						
	FESCUE, TALL	1	1					

**SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY**

7

SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY  
TYPE OF VIOLATION

8

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
GERLOFF, KENNETH NEW FLORENCE MO	4	3	1		1			
SOYBEANS	2	1	1		1			
WHEAT	2	2						
GRASS PAD WAREHOUSE OLATHE KS	13	13						
MIXED SEED	10	10						
FESCUE, TALL	3	3						
GREEN SEED CO INC SPRINGFIELD MO	62	46	16	3	11	1		3
MIXED SEED	15	14	1		1			
ALFALFA	3	2	1			1		
CLOVER	1	1						
CLOVER, ALSIKE	1	1						
CLOVER, LADINO & WHITE	1	1						
CLOVER, RED	3	2	1		1			
CLOVER, YELLOW SWEET	1	1						
FESCUE, RED	1	1						
FESCUE, TALL	12	5	7		7			1
LESPEDEZA	1		1		1			1
LESPEDEZA, COMMON	1	1						
LESPEDEZA, KOREAN	1	1						
MILLET	1	1						
ORCHARDGRASS	7	4	3		2			1
RYEGRASS, ANNUAL	1	1						
RYEGRASS, PERENNIAL	2	2						
SORGHUM, SUDANGRASS	2	2						
TIMOTHY	1		1		1			
TREFOIL, BIRDSFOOT	2	1	1		1			
VEGETABLE	5	5						
GREEN VALLEY SEED INC KAHOKA MO	34	30	4		3	1		
ALFALFA	3	3						
CLOVER, LADINO & WHITE	1	1						
CLOVER, RED	3	3						
FESCUE, RED	1	1						
FESCUE, TALL	4	2	2		2			
LESPEDEZA, KOREAN	5	4	1			1		
OAT	1	1						
ORCHARDGRASS	1	1						
RYEGRASS	2	2						
RYEGRASS, ANNUAL	2	2						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

9

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION			
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS
GREEN VALLEY SEED INC KAHOKA MO							
RYEGRASS, PERENNIAL	1	1					
SOYBEANS	6	6					
TIMOTHY	1		1		1		
WHEAT	3	3					
HAAS SEED HOUSE ALBERS IL	1	1					
WHEAT	1	1					
HALDEMAN SEED COMPANY LABELLE MO	11	10	1	1			1
ALFALFA	1	1					
BROME, SMOOTH	1	1					
LESPEDEZA, KOREAN	2	2					
OAT	1	1					
RYEGRASS	1		1		1		
RYEGRASS, ANNUAL	1	1					
TIMOTHY	2	2					
TREFOIL, BIRDSFOOT	2	2					
HARRIS MORAN SEED CO MODESTO CA	2	2					
VEGETABLE	2	2					
HOFFMAN & REED INC. TRENTON MO	6	6					
WHEAT	6	6					
HOLLAR & CO INC ROCKY FORD CO	3	3					
VEGETABLE	3	3					
HUMMERT INTERNATIONAL EARTH CITY MO	8	7	1		1		
MIXED SEED	3	3					
FESCUE, RED	2	1	1		1		
RYEGRASS, ANNUAL	1	1					
RYEGRASS, PERENNIAL	2	2					

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

10

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
J & J SEED CO GALLATIN MO SOYBEANS	5	5						
WHEAT	1	1						
JACKLIN SEED CO POST FALLS ID BERMUDAGRASS	1	1						
JAY TURNER COLUMBIA MO CLOVER, RED	1	1						
JOHNSON FEED STORE PIEDMONT MO OAT	2	2						
WHEAT	1	1						
JOHNSON SEED CO ASHBURN GA FESCUE, TALL	1		1				1	
	1		1				1	
JOHNSON SEED CO. ENID OK BERMUDAGRASS	2	2						
	2	2						
K-F SEEDS BRAWLEY CA MIXED SEED	3	3						
BERMUDAGRASS	2	2						
	1	1						
KEN MO AGRI CENTER KENNETT MO SOYBEANS	13	13						
WHEAT	12	12						
	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

11

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
KEN TEVIS SEED HUGHSVILLE MO SOYBEANS	2	2						
KESTNER'S GARDEN CENTER DEXTER MO VEGETABLE	3	3						
KING CITY SEED & STORAGE KING CITY MO ALFALFA	38	38						
CLOVER, RED	1	1						
SOYBEANS	33	33						
WHEAT	3	3						
KRUGER SEED COMPANY DIKE IA CORN, FIELD	3	3						
SOYBEANS	1	1						
LAND O LAKES INC FT DODGE IA SOYBEANS	2	2						
LAWHON FARM SUPPLY MC CRORY AR SOYBEANS	3	3						
WHEAT	13	13						
LAY SEED CO LABELLE MO WHEAT	11	11						
	2	2						
	1	1						
	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

12

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
LEBANON SEABOARD CORP BRISTOL IL MIXED SEED RYEGRASS, PERENNIAL	5	3	2	1	1			
	4	3	1		1			
	1		1		1			
LEETON ELEVATOR INC LEETON MO FESCUE, TALL	1	1						
	1	1						
LEMARS AGRI CENTER LEMARS IA OAT	1	1						
	1	1						
LESCO ROCKY RIVER OH MIXED SEED FESCUE, TALL	11	11						
	9	9						
	2	2						
MANGELSDORF SEED TEUTOPOLIS IL FESCUE, TALL	1	1						
	1	1						
MAYBERRY BROTHERS INC ESSEX MO WHEAT	1	1						
	1	1						
MC COLLUM WILLIAM COLUMBIA MO WHEAT	1	1						
	1	1						
MERSCHMAN SEEDS WEST POINT IA MIXED SEED SOYBEANS WHEAT	12	12						
	1	1						
	10	10						
	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

13

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
MFA AGRI SERVICE WENTZVILLE MO MIXED SEED	1	1						
MFA EXCHANGE CHILlicothe MO ORCHARDGRASS	1		1		1			
MFA INC. SEED DIVISION COLUMBIA MO	168	154	14	5	6	3		2
MIXED SEED	6	2	4	2	2			
ALFALFA	2	2						
BROME, SMOOTH	5	4	1		1			
BUCKWHEAT	1	1						
CLOVER, ALSIKE	1	1						
CLOVER, LADINO & WHITE	2	2						
CLOVER, RED	7	6	1			1		
CLOVER, YELLOW SWEET	1	1						
FESCUE, RED	1	1						
FESCUE, TALL	35	31	4	1	3			2
LESPEDEZA	4	2	2			2		
LESPEDEZA, KOREAN	4	4						
MILLET	1	1						
OAT	6	6						
ORCHARDGRASS	4	3	1		1			
RYE	1	1						
RYEGRASS	1	1						
RYEGRASS, PERENNIAL	2	2						
SORGHUM, GRAIN	1	1						
SOYBEANS	57	57						
TIMOTHY	8	8						
TRITICALE	1		1		1			
WHEAT	17	17						
MFA INCORPORATED COLUMBIA MO RYE	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

14

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
MFA SEED DIST SEDALIA MO	13	9	4	1	3			1
MIXED SEED	6	3	3			3		
FESCUE, TALL	1	1						
ORCHARDGRASS	1		1		1			1
RYEGRASS, ANNUAL	3	3						
RYEGRASS, PERENNIAL	2	2						
MFA SEED PROCESSING CALIFORNIA MO	1		1		1			
MIXED SEED	1		1		1			
MID-STATE SEED & STORAGE MARSHALL MO	21	19	2		1	1		
MIXED SEED	2	2						
BLUEGRASS, KENTUCKY	1	1						
BROME, SMOOTH	2	1	1		1			
CLOVER, RED	2	2						
FESCUE, RED	1	1						
FESCUE, TALL	3	2	1				1	
ORCHARDGRASS	2	2						
WHEAT	8	8						
MIDWEST GRAIN PRODUCTS ATCHISON KS	1		1		1			
MIXED SEED	1		1		1			
MIDWEST PREMIUM GENETICS CONCORDIA MO	1	1						
SOYBEANS	1	1						
MIDWEST SEED GENETIC INC CARROLL IOWA	15	15						
SOYBEANS	15	15						
MILBANK MILLS INC CHILLICOTHE MO	1	1						
WHEAT	1	1						

SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY  
TYPE OF VIOLATION

15

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
MILLER SEED CO CLINTON MO	8	7	1		1			
MIXED SEED	1	1						
CLOVER, LADINO & WHITE	2	2						
FESCUE, RED	1	1						
FESCUE, TALL	1	1						
LESPEDEZA	1	1						
LESPEDEZA, KOREAN	1	1						
WHEAT	1		1		1			
MILLER SEED COMPANY PEA RIDGE AR	2		2	2		1		1
MIXED SEED	2		2	2		1		1
MISSOURI SOUTHERN SEED ROLLA MO	300	280	20	9	5	3		4
MIXED SEED	41	38	3	2				1
ALFALFA	11	11						
BERMUDAGRASS	1	1						
BLUEGRASS, KENTUCKY	8	8						
BROME, SMOOTH	14	13	1		1			
BUCKWHEAT	1	1						
CANARYGRASS, REED	5	5						
CLOVER	1	1						
CLOVER, ALSIKE	1	1						
CLOVER, CRIMSON	1	1						
CLOVER, LADINO & WHITE	9	9						
CLOVER, RED	31	30	1			1		
FESCUE, RED	3	3						
FESCUE, TALL	64	58	6	3	2	1		1
LESPEDEZA	5	5						
LESPEDEZA, KOREAN	14	12	2		1	1		
MILLET	2	2						
MILLET, FOXTAIL	1	1						
MILLET, JAPANESE	2	2						
ORCHARDGRASS	27	23	4	3				1
RAPE, WINTER	1	1						
REDTOP	4	3	1	1				
RYE	1	1						
RYEGRASS	3	3						
RYEGRASS, ANNUAL	7	6	1					1
RYEGRASS, PERENNIAL	16	16						
SORGHUM, SUDANGRASS	2	2						
SOYBEANS	1	1						
SWITCHGRASS	1	1						
TIMOTHY	10	10						
TREFOIL, BIRDSFOOT	4	3	1	1				

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

16

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION			
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS
MISSOURI SOUTHERN SEED ROLLA MO VEGETABLE WHEAT	1 6	1 6					
MONSANTO CO ST LOUIS MO CORN, FIELD SORGHUM, GRAIN SOYBEANS SUNFLOWER	940	940	167 12 760 1	167 12 760 1			
MONSANTO SEED CO(ASGROW) MATTHEWS MO SOYBEANS	1	1	1	1			
MOORE HARDWARE WRIGHT CITY MO MIXED SEED	1	1	1	1			
MORNING SUN SEED WESTBORO MO OAT SOYBEANS	9	9	1 8	1 8			
MYCOGEN SEEDS EAGAN MN CORN, FIELD	1	1	1	1			
MYCOGEN SEEDS INDIANAPOLIS IN SORGHUM, GRAIN SOYBEANS	4	4	1 3	1 3			
NECO SEEDS GARDEN CITY MO SOYBEANS WHEAT	15	15	11 4	11 4			

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

17

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
NIXA HARDWARE NIXA MO	37	31	6	3	1	2	1	2
MIXED SEED	4	1	3	2	1		1	2
ALFALFA	5	5						
BERMUDAGRASS	1	1						
CANARYGRASS, REED	1	1						
CLOVER	1	1						
CLOVER, ALSIKE	1	1						
CLOVER, LADINO & WHITE	2	1	1				1	
CLOVER, RED	3	3						
FESCUE, RED	1	1						
FESCUE, TALL	5	5						
LESPEDEZA	1	1						
LESPEDEZA, KOREAN	1		1				1	
ORCHARDGRASS	4	3	1	1				
RYE	1	1						
RYEGRASS, ANNUAL	3	3						
RYEGRASS, PERENNIAL	1	1						
TIMOTHY	1	1						
WHEAT	1	1						
NORTHRUP KING & COMPANY MINNEAPOLIS MN	4	4						
SOYBEANS	4	4						
NORTHWEST MO SEEDS INC. UNION STAR MO	14	13	1			1		
CORN, FIELD	1	1						
SOYBEANS	13	12	1			1		
NOVARTIS SEED MINNEAPOLIS MN	53	53						
MIXED SEED	1	1						
CORN, FIELD	19	19						
SOYBEANS	33	33						
NOVARTIS SEEDS INC BOISE ID	2	2						
SOYBEANS	2	2						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

18

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
OLEAN SEED COMPANY OLEAN MO FESCUE, TALL	1		1		1		1	
PATRIOT SEEDS BOWEN IL CORN, FIELD	17	17						
SOYBEANS	2	2						
WHEAT	11	11						
	4	4						
PAULSMAYER JOE SILEX MO SOYBEANS	3	2	1	1				
WHEAT	1		1	1				
	2	2						
PAYMASTER SEEDS LUBBOCK TX COTTON	2	2						
	2	2						
PENNINGTON SEED CO MADISON GA COWPEA	1	1						
	1	1						
PENNINGTON SEED INC GREENFIELD MO MIXED SEED	450	442	8	1	4	1		2
BERMUDAGRASS	272	267	5		3			2
BLUEGRASS, KENTUCKY	2	2						
FESCUE, RED	44	43	1		1			
FESCUE, TALL	11	11						
LESPEDEZA	69	68	1			1		
LESPEDEZA, KOREAN	1	1						
ORCHARDGRASS	1			1	1			
RYEGRASS, ANNUAL	27	27						
RYEGRASS, PERENNIAL	22	22						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

19

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
PETERSBURG SEED & GRAIN FRANKLIN MO WHEAT	3	3						
PFISTER HYBREDS EL PASO IL CORN, FIELD	1	1						
PILOT GROVE COOP PILOT GROVE MO CLOVER, RED	1	1						
PIONEER HI-BRED INT JOHNSTON IA MIXED SEED	48	48						
CORN, FIELD	2	2						
SORGHUM, GRAIN	18	18						
SOYBEANS	8	8						
WHEAT	18	18						
WHEAT	2	2						
POWELL SEED FARM LINNEUS MO CLOVER, RED	4	3	1		1			
TIMOTHY	1	1						
	3	2	1		1			
PROGENY AG PRODUCTS WYNNE AR SOYBEANS	2	2						
REEDS SEEDS INC CHILlicothe MO BLUEGRASS, KENTUCKY	27	26	1		1		1	
BROME, SMOOTH	1	1						
CLOVER, RED	2	2						
FESCUE, TALL	3	3						
LESPEDEZA, KOREAN	1	1						
OAT	2	2						
ORCHARDGRASS	1	1						
RYEGRASS, ANNUAL	1	1						
RYEGRASS, PERENNIAL	1	1						
SOYBEANS	9	9						
TIMOTHY	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

20

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION			
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS
							OTHER
REEDS SEEDS INC CHILLICOTHE MO WHEAT	4	4					
RENZE HYBRIDS INC CARROLL IA SOYBEANS	3	3					
RESEARCH SEED INC ST JOSEPH MO MIXED SEED	190	171	19	6	11	2	
ALFALFA	48	43	5	1	4		
BLUEGRASS, KENTUCKY	27	27					
BROME, SMOOTH	24	20	4	1	3		
CANARYGRASS, REED	6	4	2			2	
CLOVER, LADINO & WHITE	2	2					
CLOVER, RED	2	2					
CLOVER, YELLOW SWEET	9	8	1		1		
FESCUE	1	1					
FESCUE, RED	5	3	2	1	1		
FESCUE, TALL	5	5					
ORCHARDGRASS	25	24	1	1			
RYEGRASS, ANNUAL	9	6	3	2	1		
RYEGRASS, PERENNIAL	4	4					
SWITCHGRASS	16	16					
TIMOTHY	1	1					
TREFOIL, BIRDSFOOT	4	4					
RIVER BEND CUSTOM SEED CARROLTON MO WHEAT	2	2					
ROBINSON SEED SERVICE ST LOUIS MO MIXED SEED	2	2					
ROGERS BROTHERS SEED CO BOISE ID VEGETABLE	11	11					
	11	11					
	1	1					
	1	1					

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

21

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
ROLLISON SEED CO DE WITT AR WHEAT	1	1						
S & S SEED CO STOCKTON MO MIXED SEED	14	7	7	3	3	1		
CLOVER, LADINO & WHITE	7	2	5					
FESCUE, TALL	1		1				1	
ORCHARDGRASS	2	1	1			1		
SORGHUM, SUDANGRASS	2	2						
SOYBEANS	1	1						
SEED PRODUCTION INC MADISON GA MILLET	3	3						
SORGHUM, SUDANGRASS	2	2						
SEED RESOURCE TULSA TX SUNFLOWER	1	1						
SEEDS INC MEMPHIS TN BERMUDAGRASS	2	2						
RYEGRASS, ANNUAL	1	1						
SEMINIS VEGETABLE SEEDS OXNARD, CA VEGETABLE	1	1						
SEXAUER DISCOUNT FARM SE BROOKINGS SD RYE	2	1	1			1		
	2	1	1			1		

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

22

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
SHAWNEETOWN FEED&SEED CO JACKSON MO	9	8	1	1		1		1
BROME, SMOOTH	1	1						
FESCUE, TALL	2	1	1	1		1		1
LESPEDEZA, KOREAN	1	1						
ORCHARDGRASS	1	1						
RYEGRASS, ANNUAL	1	1						
RYEGRASS, PERENNIAL	1	1						
SOYBEANS	1	1						
TIMOTHY	1	1						
SHELDON SEED CO SHELDON MO	1	1						
WHEAT	1	1						
SIEMER MANGELSDORF E ST LOUIS IL	15	13	2	1	1			1
MIXED SEED	6	5	1	1				1
FESCUE, TALL	7	6	1		1			
RYEGRASS, PERENNIAL	2	2						
SIKESTON SEED COMPANY SIKESTON MO	5	5						
SOYBEANS	4	4						
WHEAT	1	1						
SMITH BROTHERS FARM SPLY WYACONDA MO	1	1						
SOYBEANS	1	1						
SOMMER BROS SEED CO PEKIN IL	2	2						
CORN, FIELD	1	1						
SOYBEANS	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

23

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
STAR SEED CO Beloit KS OAT	1	1						
STINE SEED FARM INC ADEL IA CORN, FIELD SOYBEANS	46	46						
STODDARD CO SEED SERVICE DUDLEY MO WHEAT	1	1						
STONEVILLE PEDI. SEED MEMPHIS TN COTTON	52	52						
STROBEL FARMS BELL CITY MO SOYBEANS	1	1						
STROBEL FARMS SUPPLY CONCORDIA MO WHEAT	3	3						
SURE GROW SEED INC CENTRE AL MIXED SEED COTTON	6	6						
SYGENTA SEEDS MINNEAPOLIS MN CORN, FIELD SOYBEANS	1	1						
	5	5						
	3	3						
	2	2						
	1	1						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

24

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
SYNGENTA SEED INC BOISE ID VEGETABLE	1	1						
SYNGENTA SEED INC PARIS ILL VEGETABLE	2	2						
TANNER SEED CO BERNIE MO RICE	8	8						
	4	4						
	4	4						
TASSO PRODUCTIONS LTD PLEASANTON TX VEGETABLE	2	2						
	2	2						
TAYLOR SEED FARMS WHITE CLOUD KS CORN, FIELD	1	1						
	1	1						
TENNESSEE FARMERS CO-OP JACKSON TN SORGHUM, GRAIN	1	1						
	1	1						
TENNESSEE FARMERS COOP LA VERGNE TN CORN, FIELD	30	30						
	1	1						
SORGHUM, GRAIN	6	6						
SOYBEANS	14	14						
WHEAT	9	9						
TERRA INTL CARUTHERSVILLE MO MIXED SEED	1		1		1			
	1		1		1			

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

25

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
TEXAS OKLAHOMA PROD CO ENID OK MILLET OAT	2	2						
THORP SEED CO CLINTON IL SOYBEANS	1	1						
TOBIN STANDARD SEED & KANSAS CITY MO FESCUE, TALL	3	1	2	2				
TOPCO ASSOCIATES INC ATLANTA GA CORN, FIELD	3	1	2					
TRI-STAR SEED COMPANY SPRING HILL KS MIXED SEED FESCUE, TALL	2	1	2					
TRIUMPH SEED CO INC RALLS TX SORGHUM, GRAIN	1	1						
UAP SEED CO GREELEY CO SORGHUM, GRAIN SOYBEANS	1	1						
8	8							
UNITED SUPPLIERS INC ELDORA IA SOYBEANS	7	7						
	7	7						

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

26

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
VALLEY PARK ELEVATOR VALLEY PARK MO MIXED SEED	2	1	1		1			
W S D A KAHOKA MO SOYBEANS	4	4						
W.S.D.A. GARDEN CITY MO CORN, FIELD SOYBEANS WHEAT	4	4						
W.S.D.A. KING CITY MO SOYBEANS	18	18						
WEBER SEEDS INC MARSHALL MO SOYBEANS WHEAT	5	5						
WESTERN HIBRID SEED INC HAMILTON CITY CA VEGETABLE	8	8						
WILBUR ELLIS CO FRESNO, CA COTTON	5	5						
WILLIAMS LAWN SEED CO MARYVILLE MO MIXED SEED BLUEGRASS BLUEGRASS, KENTUCKY FESCUE FESCUE, RED FESCUE, TALL RYEGRASS, ANNUAL RYEGRASS, PERENNIAL	31	29	2	2	3			1

## SUMMARY OF COMPLIANCE WITH CONTENT CLAIMS BY COMPANY

27

COMPANY & ADDRESS	NO OF LOTS INSPECTED	LOTS PASSED	LOTS IN VIOLATION	TYPE OF VIOLATION				
				PURE SEED	GERMI- NATION	NOXIOUS WEEDS	PROHIBITIVE WEEDS	OTHER
WILSON HYBRIDS INC HARLAN IA CORN, FIELD	1	1						
WYFFELS HYBRIDS INC ATKINSON IL CORN, FIELD	1	1						
TOTAL SAMPLES----->3358		3207	151	51	71	25	4	22
AVERAGES-----	100	96	4	2	2	1		1

## **SECTION TWO**

### **VIOLATIONS OF SEED LOTS FOR REASONS OTHER THAN CONTENT CLAIMS**

## VIOLATIONS ON SEED LOTS FOR REASONS OTHER THAN CONTENTS CLAIMS

<b>Company</b>	<b>Reason Field Written Stop Sale was Issued</b>	<b>Number of Violations</b>
<b>Buchheit of Jackson, Inc (157074) Jackson, MO</b>	<b>Out of test date No test date on label No label</b>	<b>3 2 2</b>
<b>Buchheit of Perryville (157046) Perryville, MO</b>	<b>Out of test date No label</b>	<b>32  14</b>
<b>MFA Agri Service (109026) Aurora, MO</b>	<b>Out of test date</b>	<b>7</b>
<b>MFA Agri Service (117005) Chillicothe, MO</b>	<b>Out of test date</b>	<b>5</b>
<b>MFA Agri Service (205006) Clarence, MO</b>	<b>Out of test date No label</b>	<b>4 2</b>
<b>MFA Inc (019009) Columbia, MO</b>	<b>No label</b>	<b>1</b>
<b>Orscheln Farm &amp; Home (175020) Moberly, MO</b>	<b>Out of test date</b>	<b>4</b>